



Water-Data Report 2008

08095400 Hog Creek near Crawford, TX

Middle Brazos-Bosque Basin
Bosque Subbasin

LOCATION.--Lat 31°33'20", long 97°21'22" referenced to North American Datum of 1927, McLennan County, TX, Hydrologic Unit 12060203, on downstream side of bridge on Farm Road 185, 5.6 mi east of Crawford, and 9.8 mi upstream from South Bosque River.

DRAINAGE AREA.--78.2 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Aug. 1959 to Sept. 1985 (daily mean discharge), Oct. 1985 to Sept. 2007 (peak discharges greater than base discharge). Oct. 2007 to current year.

PERIOD OF RECORD, Water-Quality.--

CHEMICAL DATA: June 1964.

REVISED RECORDS.--WSP 1922: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 560.54 ft above NGVD of 1929. Prior to Oct. 27, 1959, nonrecording gage at same site and datum. Satellite telemeter at station.

REMARKS.--Records fair except for those daily discharges below 5 ft³/s, which are poor. Since water year 1980, at least 10% of the contributing drainage area has been regulated. These structures control runoff from 42.0 mi² in the Hog Creek drainage basin. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--20 years (water years 1960-1979), 37.7 ft³/s (27,310 acre-ft/yr).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1900, 17.5 ft Sept. 26, 1936. Flood in Apr. or May 1957 reached a stage of 15.7 ft, from information by local residents.

EXTREMES FOR PERIOD PRIOR TO REGULATION.--WATER YEARS 1959-1979: Maximum discharge, 15,400 ft³/s Oct. 4, 1959 (gage height, 14.31 ft); no flow at times.

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08095400 Hog Creek near Crawford, TX—Continued

SUMMARY STATISTICS

	Water Year 2008		Water Years 1980 - 2008^z	
Annual total	4,348.65			
Annual mean	11.9		13.9	
Highest annual mean			36.9	1981
Lowest annual mean			0.32	1984
Highest daily mean	417	May 14	3,150	May 23, 1992
Lowest daily mean	0.01	Aug 16	0.00	Aug 31, 1983
Annual seven-day minimum	0.02	Jul 29	0.00	Dec 25, 1983
Maximum peak flow	1,370	May 14	10,500	Mar 29, 2007
Maximum peak stage	5.38	May 14	12.18	Mar 29, 2007
Annual runoff (ac-ft)	8,630		10,060	
10 percent exceeds	24		26	
50 percent exceeds	3.0		1.7	
90 percent exceeds	0.07		0.05	

^z Period of regulated streamflow.

